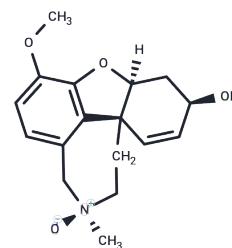


Galanthamine N-Oxide

Chemical Properties

CAS No. :	134332-50-6
Formula:	C ₁₇ H ₂₁ NO ₄
Molecular Weight:	303.35
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Galanthamine N-Oxide, an alkaloid extracted from Zephyranthes concolor bulbs, effectively inhibits acetylcholinesterase (AChE) from electric eel with an EC ₅₀ of 26.2 μM. It acts as a significant inhibitor of substrate accommodation within the active sites of Torpedo californica AChE (TcAChE), human AChE (hAChE), and human BChE (hBChE) enzymes.
Targets(IC50)	Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 55 mg/mL (181.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2965 mL	16.4826 mL	32.9652 mL
5 mM	0.6593 mL	3.2965 mL	6.593 mL
10 mM	0.3297 mL	1.6483 mL	3.2965 mL
50 mM	0.0659 mL	0.3297 mL	0.6593 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Reyes-Chilpa R, et al. Acetylcholinesterase-inhibiting alkaloids from Zephyranthes concolor. Molecules. 2011 Nov 15;16(11):9520-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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